

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) ~~A system to control an operating state of a device, the device including a hardware component having a hardware operating state and a software component having a software operating state, the system comprising:~~

~~the a~~ hardware component operable to receive at least one hardware input, the hardware input indicative of a target hardware operating state for the hardware component;

~~the a~~ software component operable to receive at least one software input, the software input indicative of a target software operating state for the software component; and

a coordination component included in the software component, the coordination component operable to receive the hardware and software inputs, the coordination component operable to control the operating state of the device in response to the target hardware operating state and the target software operating state, the coordination component including a state machine and a state machine context store component, whereby links between the hardware component, the software component and the coordination component transfer inputs, directly and indirectly, between the hardware component, software component and the coordination component.

2. (Previously Presented) The system of claim 1, wherein the coordination component is operable to control the operating state of the device by selecting one of four operating states, the four operating states comprising:

an S0 state, wherein the target hardware and software operating states are disabled;

an S1 state, wherein the target hardware operating state is disabled and the target software operating state is enabled;

an S2 state, wherein the target hardware operating state is enabled and the target software operating state is disabled; and

an S3 state, wherein the target hardware and software operating states are enabled.

3. (Previously Presented) The system of claim 2, wherein the device is electrically coupled to an information handling system, wherein the device is selected to operate in a predefined state after a startup of the information handling system.
4. (Previously Presented) The system of claim 1, wherein causing a change in the target hardware or software operating state causes a change in the operating state of the device.
5. (Previously Presented) The system of claim 2, wherein a change in the operating state of the device causes the hardware and software components to generate a feedback to an information handling system, the device being included in the information handling system.
6. (Previously Presented) The system of claim 5, wherein:
 - the hardware component is operable to generate at least one hardware output in response to receiving the hardware input, the hardware output providing the feedback indicative of the operating state of the device;
 - the software component is operable to generate at least one software output in response to receiving the software input, the software output providing the feedback indicative of the operating state of the device; and
 - the coordination component operable to control the operating state of the device by selecting the device to operate in an enabled operating state in response to the target hardware and software operating states being enabled, and selecting the device to operate in a disabled operating state in response to the target hardware or software operating states being disabled.
7. (Previously Presented) The system of claim 6, wherein the enabled operating state is an S3 state, and the disabled operating state is an S0, S1 or S2 state.
8. (Previously Presented) The system of claim 6, wherein the hardware output includes a light emitting diode (LED) output, a sound output or a sensory feedback generating device.

9. (Previously Presented) The system of claim 6, wherein the software output includes a graphical user interface (GUI) element, an icon, a soft light emitting diode (LED) output, a returned parameter or a handle to a calling software program.
10. (Previously Presented) The system of claim 1, wherein the software component includes:
 - a software driver program providing an interface between the device and an information handling system, the information handling system including the device, the software driver program being operable to receive a first software control input included in the software input and generate a first software output included in the software output, the first software output being indicative of the operating state of the device; and
 - a user interface (UI) program providing feedback to the information handling system, the UI program being operable to receive a second software control input included in the software input and generate a second software output included in the software output, the second software output being indicative of the operating state of the device.
11. (Previously Presented) The system of claim 1, wherein the target software operating state is changed by changing the software input, wherein the software input is changed by a call made to a software program included in an information handling system, wherein the information handling system includes the device.
12. (Previously Presented) The system of claim 1, wherein the target hardware operating state is changed by changing the hardware input, wherein the hardware input is changed by an operation of a switch or signal.
13. (Previously Presented) The system of claim 1, wherein the device is a communications device.
14. (Previously Presented) The system of claim 13, wherein the communications device is a wireless radio.

15. (Previously Presented) The system of claim 14, wherein a transmitter and receiver included in the wireless radio is separately controlled.
16. (Previously Presented) The system of claim 1, wherein the operating state of the software component and the operating state of the hardware component is saved during a change of an operating state of an information handling system, wherein the information handling system includes the device.
17. (Currently Amended) An information handling system comprising:
a processor;
a system bus;
a memory coupled to the processor through the system bus; and
a device coupled to the processor and the memory through the system bus,
wherein the device includes ~~a hardware component having a hardware operating state and a software component having a software operating state, wherein the object~~ includes:

the a hardware component operable to receive at least one hardware input, the hardware input indicative of a target hardware operating state for the hardware component;

the a software component operable to receive at least one software input, the software input indicative of a target software operating state for the software component; and

a coordination component included in the software component, the coordination component operable to receive the hardware and software inputs, the coordination component operable to control the operating state of the device in response to the target hardware operating state and the target software operating state, the coordination component including a state machine and a state machine context store component, whereby links between the hardware component, the software component and the coordination component transfer inputs, directly and indirectly, between the hardware component, software component and the coordination component.
18. (Original) The system of claim 17, wherein the device is a communications device.

19. (Currently Amended) A method for controlling a device, the method comprising:
- initializing the device upon startup by placing the device in a predefined operating state, the predefined operating state being selected as an S3 operating state, wherein a hardware component and a software component of the device are enabled;
 - transitioning the device from the S3 state to an S1 operating state in response to the hardware component being disabled and returning from the S1 state to the S3 state in response to the hardware component being enabled;
 - transitioning the device from the S3 state to an S2 operating state in response to the software component being disabled and returning from the S2 state to the S3 state in response to the software component being enabled;
 - transitioning the device from the S1 operating state to an S0 operating state in response to the software component being disabled and returning from the S0 state to the S1 state in response to the software component being enabled; and
 - transitioning the device from the S2 operating state to an S0 operating state in response to the hardware component being disabled and returning from the S0 state to the S2 state in response to the hardware component being enabled; and
- a coordination component including a state machine and a state machine context store component, whereby links between the hardware component, the software component and the coordination component transfer inputs, directly and indirectly, between the hardware component, software component and the coordination component.
20. (Previously Presented) The method of claim 19, wherein the device is a communications device.
21. (Previously Presented) The method of claim 19, wherein rules defining the transitioning between any two operating states are modifiable in the communications device.